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AUSTRALIAN MUSEUM, SYDNEY.

(CATALOGUE No. 15.)

CATALOGUE

OF THE

MARINE SHELLS OF AUSTRALIA AND TASMANIA.

PART I.

CEPHALOPODS



BY

JOHN BRAZIER, C.M.Z.S., F.L.S.

PRINTED BY ORDER OF THE TRUSTEES.

E. P. Ramsay, Curator.

Sydney :

CHARLES POTTER, GOVERNMENT PRINTER, PHILLIP-STREET.

1892.

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PREFACE.

THE Trustees of the Australian Museum having decided that a Catalogue of the Australian Mollusca should be prepared, Mr. J. Brazier, C.M.Z.S., F.L.S., has been entrusted with the compilation of this work; it will necessarily be protracted, as it entails the examination of many thousands of specimens, both dry and in spirits.

The Catalogue, which will be issued from time to time in parts, will embrace not only the species represented in the general Museum Collection, but also those in the Hargrave's Collection (so liberally presented to the Trustees by the late Thomas Walker, Esq.) and those recently purchased from Mr. Brazier. The labels on the tablets of the respective specimens indicate from which collection they have been derived.

The principal synonyms and references have been added, and the letters (A.M.) after the localities indicate that the specimens are in the Australian Museum Collection.

E. P. RAMSAY,
Curator.

CATALOGUE
OF
MARINE SHELLS OF AUSTRALIA AND TASMANIA.

PART I.—CEPHALOPODA.

IN this Part of the Catalogue are enumerated all the species of the recent Australian Cephalopoda, known to the Author or which have been described, from the coasts of Australia and Tasmania.

In compiling this portion of the Catalogue I have availed myself of the information contained in Mr. William Evans Hoyle's Report on the Cephalopoda, collected during the voyage of H.M.S. "Challenger."

JOHN BRAZIER.



Class CEPHALOPODA, Cuvier.

Order DIBRANCHIATA, Owen, 1832.

Sub-order OCTOPODA, Leach, 1818.

Family ARGONAUTIDÆ, Cantraine, 1841.

ARGONAUTA, Linné, 1756.

Argonauta argo, Linné.

Argonauta argo, Linné, Syst. Nat., ed X, p. 708. No. 282. 231, 1758.

Nautilus papyraceus, Martini, Conch. Cab., Vol. I, p. 231, pl. 17, fig. 157, 1769.

Nautilus papyraceus parvus, Martini, Conch. Cab., Vol. I, p. 238. Vignette 8, fig. 2, p. 221, 1769.

Argonauta striata, Perry, Conch. pl. 42, fig. 2, 1811.

Argonauta grandiformis, Perry, Conch. pl. 42, fig. 4, 1811.

Argonauta haustum, Dillwyn, Catal., Vol. I., p. 335, 1817.

Argonauta argo, d'Orb., Céph. Acét. p. 158. Argonaute, pl. 2, figs. 1-2, 1835-1848.

Argonauta Gruneri, Dunker, Zeitschr. f. Malak., p. 48, 1852.

Argonauta argo, Reeve, Conch., Icon., pl. 3, fig. 2°, 1861.

Argonauta haustum, Reeve, Conch., Icon., pl. 2, 1861.

Argonauta argo, Angas, Marine Mollusca of Port Jackson, Proc. Zool. Soc., Lond., p. 185, 1867.

Argonauta pacifica, Dall, American Journal. Conch., Vol. III, p. 95, 1872.

Argonauta argo, E. von Martens, Ann. Mag. Nat. Hist., 3rd series, Vol. XX, p. 104, 1867.

Argonauta argo, Tryon, Manual of Conchology, Vol. I, p. 138. pl. 47, figs. 111, 112; pl. 48, figs. 116, 117, 1879.

Argonauta argo, Hoyle, Report on the Cephalopoda, H.M.S. "Challenger," Zoology, Vol. XVI, pp. 1, 69, 1886.

Habitat.—Port Jackson Heads, Manly Beach, Port Stephens (A.M.), New South Wales; North Queensland, and Torres Straits.

Argonauta nodosa, Solander.

Argonauta nodosa, Solander, Portl. Catal., 76, 2120, Vol. II, p. 113, 1786.

Argonauta navicula, Solander, Portl. Catal., 42, 1055 (= *forma aurita*), Vol. II, p. 112, 1786.

Argonauta oryzata, Meuschen, Mus. Gevers, 252, No. 133, 1787.

Argonauta tuberculata, Shaw, Nat. Hist., Miscell, Vol. XXIII, tab. 995, 1790.

Argonauta vitrea, Perry, Conchology, pl. 42, fig. 1, 1811.

Argonauta gondola, Dillwyn, Desc. Catal., Vol. I, p. 335, 1817 (= *forma aurita*).

Argonauta tuberosa, Schumacher, Essai d'un Nouv. Syst., p. 260, 1817.

Argonauta tuberculosa, Lamk., Anim. s. vert., VII, p. 632, 1822.

Argonauta tuberculata, d'Orb., Céph. Acét., p. 169, Argonaute, pl. 3, 4 (pl. 4. = *forma aurita*), 1835.

Argonauta tuberculosa, Reeve, Conch. Icon., pl. 1, 1861 (= *forma mutica*).

Argonauta oryzata, Angas, Molluscan Fauna of South Australia, Proc. Zool. Soc., Lond., p. 156, 1865.

Argonauta oryzata, Angas, Marine Mollusca found in Port Jackson, Proc. Zool. Soc., Lond., p. 185, 1867.

Argonauta tuberculata, E. von Martens, Ann. Mag. Nat. Hist., 3rd series, Vol. XX, p. 104, 1867.

Argonauta nodosa, Tryon, Manual of Conchology, Vol. I, p. 140, pl. 50, fig. 124, 1879.

Argonauta tuberculosa, Hutton, Manual of New Zealand Mollusca, p. 2, 1880.

Argonauta tuberculata, Hoyle, Report on the Cephalopoda, H.M.S. "Challenger," Zoology, Vol. XVI, p. 4, No. 2, 1886.

Habitat.—Outer Manly Beach, Newcastle, Port Stephens (A.M.), New South Wales; Tasmania (A.M.), South Australia, New Zealand.

Argonauta hians, Solander.

Nautilus tenuis, Martini, Conch. Cab., Vol. I, p. 235, pl. 17, figs. 158, 9, 1769.

Argonauta hians, Solander, Portl. Catal., p. 44, lot 1,055, Vol. II, p. 113, 1786.

Argonauta nitida, Lamk., Anim. sans Vert., t. VII, p. 653, 1822.

Argonauta gondola, Dillwyn, Vol. I, p. 335, No. 4, 1817.

Argonauta hians, Dillwyn, Vol. I, p. 334, No. 3, 1817.

Argonauta hians, Ad. and Reeve, Voy. "Samarang," Mollusca, part 1, p. 4, No. 2, pl. 3, fig. 2^{a, b, c}, 1848.

Argonauta hians, d'Orb., Céph. Acét., p. 174. Argonaute, pl. 5, 1835.

Argonauta gondola, Ad. and Reeve, Voy. "Samarang," p. 3, No. 1, pl. 2, 1848.

Argonauta Owenii, Ad. and Reeve, Voy. "Samarang," p. 4, No. 3, pl. 3, fig. 1, 1848.

Argonauta hyans, Gray, Ceph. Antep., Brit. Mus. Cat., p. 33, 1849.

Argonauta Kochiana, Dunker, Zeitschr. f. Malak. p. 49, 1852.

Argonauta gondola, Reeve, Conch. Icon., pl. 4, figs. 3^a–3^b, 1861.

Argonauta hians, Hoyle, Report on the Cephalopoda. H.M.S. "Challenger," Zoology, Vol. XVI, p. 5, No. 3, 1886.

Habitat.—Moreton Bay, Queensland. (Strange.)

Argonauta Böttgeri, Maltzan.

Argonauta Böttgeri, Maltzan, Journal de Conchyliologie, Vol. XXIX, p. 163, pl. 6, fig. 7, 1881.

Argonauta Böttgeri, E. A. Smith, Ann. and Mag. Nat. Hist., Vol. XX, 5th series, p. 109, pl. 17, figs. 1–6, 1887.

Habitat.—Australia.

Family OCTOPODIDÆ, d'Orbigny.

OCTOPUS, Lamarck, 1799.

Octopus Boscii, Lesueur.

Sepia rugosa, Peron, MS.

Sepia Boscii, Lesueur, Journal Acad. Nat. Sci., Philad., Vol. II, p. 101, 1821.

Octopus variolatus, Peron, Blainv., Dict. de Sci. Nat., t. XLIII, p. 186, 1826.

Octopus Boscii, d'Orb., Mon. des Céph. Acét., p. 68, 1838.

Octopus Boscii, Gray, Brit. Mus. Catal., p. 12, 1849.

Octopus Boscii, var *pallida*, Hoyle, Diagnoses I, p. 223, 1885; H.M.S. "Challenger," Report, Zoology, Vol. XVI, pp. 81, 82, pl. 1 : pl. 2, fig. 2, 1886.

Habitat.—Western Australia: East Moneaur Island, Bass Strait, 38 fathoms, sand and shells; Twofold Bay, New South Wales, 150 fathoms, green mud. ("Challenger.")

Octopus granulatus, Lamarck.

Polypus mas. Seba. Thes. III, pl. 2, fig. 2, 3 (?), 1758.

Octopus, Barker. Phil. Trans., Vol. L, part 2, p. 777, pl. 29, fig. 1, 4, original figures from Edwards, 1758.

Octopus, Bruguière. Encycl. Meth., pl. 76, fig. 1, 2, 1783; figures copied from Seba.

Sepia rugosa, Bosc., Actes de la Soc. d'Hist. Nat., tab. 5, fig. 1-2, 1792.

Octopus granulatus, Lamarck, Mém. de la Soc. d'Hist. Nat. de Paris, t. I, p. 20. No. 2. 1799.

Sepia granulosa. Bosc., Buff. de Déterville Vers., t. I, p. 47. 1802.

Le Poulpe granuleux. Montfort, Buff. de Sonnini, Moll., t. III, p. 30, pl. 29. 1802; very bad copy; Bosc. figure.

Le Poulpe Américain, de Barker, Montfort, Buff. de Sonnini, Moll., t. III, p. 38, pl. 30 (figure copied from Barker, fig. 3); pl. 31, fig. 1 (copied from Barker, fig. 2, and copied from Seba, fig. 2.)

Octopus granulatus, Lam., Anim. s. Vert., t. VII, p. 658, 1822.

Octopus granulatus, Fer. d'Orb., Tableaux des Céphal., p. 53, No. 2, 1826.

Octopus granulatus, Blainville, Dict. des Sci. Nat., XLIII, p. 185, 1826.

Octopus Barkeri, Fer. d'Orb., Tab. des Céph., p. 54, No. 3, 1826.

Octopus rugosus, Blainville, Dict. des Sci. Nat., XLIII, p. 185, 1826.

Octopus americanus, Blainville, Dict. des Sci. Nat., XLIII, p. 189, 1826.

Octopus rugosus, d'Orbigny et Ferussac, Mem. des Céphal. Acét., p. 45, No. 9, Poulpes, pl. 6, figs. 1, 2. *O. granulatus*, pl. 23, fig. 20. *O. rugosus*, very poor figure of Bosc.

Octopus polyzenia, Gray, Ceph. Antep., Brit. Mus., p. 13, 1849.

Octopus incertus, Targ., Cef. Mus. Firenze, p. 22, tav. VI, figs. 9, 11, 1869.

Octopus polyzenia, E. A. Smith, "Alert" Report, p. 34, pl. 4, figs. A, A3, 1884.

Octopus granulatus, Hoyle, Report on the Cephalopoda, H.M.S. "Challenger," Zoology, Vol. XVI, pp. 8, 80, No. 6, 1886.

Octopus polyzenia, Hoyle, Report on the Cephalopoda, H.M.S. "Challenger," Zoology, Vol. XVI, p. 8, No. 9, 1886.

Habitat.—Port Essington, North Australia, Thursday Island, Torres Straits, 4 to 5 fathoms; Port Jackson (A.M.), Port Kembla, Broken Bay, Port Stephens, Newcastle, and the New South Wales coast in general. Moreton Bay, Queensland.

Octopus tetricus, Gould.

Octopus tetricus, Gould., Moll. Wilkes Exped., p. 474, fig. 588, 1852.

Octopus tetricus, Tryon, Manual of Conchology, Vol. 1, p. 121, pl. 35, figs. 46, 47.

Octopus tetricus, Hoyle, H.M.S. "Challenger," Report, 1886. Vol. XVI, pp. 8, 80, 82.

Habitat.—Found near Sydney, New South Wales. (Wilkes' Expedition.)

Octopus superciliosus, Quoy et Gaimard.

Octopus superciliosus, Quoy et Gaimard, Voy. "Astrolabe," t. II, p. 88, pl. 6, fig. 4, 1832.

Octopus Westernicnsis, Quoy. d'Orb., Céph. Acét., Poulpes, pl. X, fig. 3, 1838.

Octopus superciliosus, d'Orb., Céph. Acét., p. 41, pl. XXVIII, fig. 9.

Octopus superciliosus, Gray, Cat. Ceph. Antep., p. 12, No. 18, 1849.

Octopus superciliosus, Hoyle, Report on the Cephalopoda. H.M.S. "Challenger," Vol. XVI, p. 9, No. 16, 1886.

Habitat.—Western Port, Bass Strait, Victoria.

Octopus Australis, Hoyle.

Octopus australis, Hoyle, Diagnosis I, p. 224, 1885.

Octopus australis, Hoyle, Prelim. Rep. I, p. 98, 1885.

Octopus australis, Hoyle, Report on the Cephalopoda, H.M.S. "Challenger," Zoology, Vol. XVI, pp. 9, 88, pl. 3, figs. 4, 5, 1886.

Habitat.—George's Beach, and 6 to 15 fathoms, Port Jackson, New South Wales. (A.M.)

Octopus tenebricus, E. A. Smith.

Octopus tenebricus, E. A. Smith, "Alert" Report, p. 35, pl. 4, fig. B, 1884.

Octopus tenebricus, Hoyle, Report on the Cephalopoda, H.M.S. "Challenger," Zoology, Vol. XVI, p. 9, No. 22, 1886.

Habitat.—Port Denison, Queensland, 3 to 4 fathoms. (H.M.S. "Alert.")

Octopus duplex, Hoyle.

Octopus duplex, Hoyle, Diagnosis I, p. 226, 1885.

Octopus duplex, Hoyle, Prelim. Report, I, p. 101, 1885.

Octopus duplex, Hoyle, Report on the Cephalopoda, H.M.S. "Challenger," Zoology, Vol. XVI, pp. 10, 90, pl. 7, fig. 5, 1886.

Habitat.—Off Twofold Bay, New South Wales, 150 fathoms. (H.M.S. "Challenger.")

Octopus pictus, Brock.

Octopus pictus, Brock., Zeitschr. f. wiss. Zool., Bd. XXXVI, p. 603, Taf. XXXVII, fig. 3, 1882—(non *Octopus pictus*, Verrill),

Octopus maculosus, Hoyle, Proc. Roy. Phys. Soc. Edin., Vol. VII, p. 319, pl. 6, 1883.

Octopus maculosus, E. A. Smith, "Alert" Report, p. 36, pl. 4, fig. C., 1884.

Octopus pictus, Brock., var. *fasciata*, Hoyle, Report on the Cephalopoda, H.M.S. "Challenger," Zoology, Vol. XVI, pp. 10, 94, 1886.

Habitat.—Port Jackson, Port Stephens, New South Wales; Tasmania (A.M.); Kangaroo Island, South Australia; Moreton Bay, Queensland.

Octopus lunulatus, Quoy et Gaimard.

Octopus lunulatus, Quoy et G., Voy. "Astrolabe," t. II, p. 86, pl. 6, figs. 1, 2, 1832.

Octopus lunulatus, d'Orb., Céph. Acét., p. 59, Poulpes, pl. 10, fig. 2, pl. 26, figs. 5, 7, 1838.

Octopus lunulatus, Gray, Ceph. Antep., Brit. Mus., p. 11, 1849.

Octopus lunulatus, Tyron, Manual of Conchology, Vol. I, p. 121, pl. 26, figs. 15, 16, 1879.

Octopus lunulatus, Hoyle, Report on the Cephalopoda, H.M.S. "Challenger," Zoology, Vol. XVI, p. 10, No. 36, 1886.

Habitat.—Torres Straits; Uji, Solomon Islands. (A.M.)

Octopus macropus, Risso.

Octopus macropus, Risso, Hist. Nat. Eur. Mérid., t. IV, p. 3, 1826.

Octopus Lechenaultii, d'Orb., Tab. des Poulpes, pl. I, 1825.

Octopus Cuvierii, d'Orb., Céph. Acét., Poulpes, pl. 4, 1826.

Octopus macropodus, Sangiovani, Ann. Sc. Nat., t. XVI, p. 319, 1829.

Octopus longimanus, Féruss, Poulpes, pl. 2, 1824. •

Octopus Cuvierii, d'Orb., Céph. Acét., p. 18, Poulpes, pl. 4, 24, 1835.

Octopus macropus, Risso, d'Orb., Céph., Poulpes, pl. 24, 1835.

Octopus Cuvierii, Gray, Céph. Ante. Brit. Mus. Cat., p. 13, 1849.

Octopus macropus, Verany, Céph. Médit., p. 27, pl. X, 1851.

Octopus macropus, Targ., Céph. Mus. Firenze, p. 23, 1869.

Octopus Cuvierii, Targ., Ceph. Mus. Firenze, p. 24, 1869.

Octopus Cuvierii, Appellöf, Japanska Cep., p. 6, pl. 1, fig. 6, 1886.

Octopus macropus, Hoyle, Report on the Cephalopoda, H.M.S. "Challenger," Zoology, Vol. XVI, pp. 11, 95, 1886.

Habitat.—Port Jackson, New South Wales. (A.M.)

Octopus cyanea, Gray.

Octopus cyanea, Gray, Ceph. Antep., Brit. Mus. Cat., p. 15, 1849.

Octopus cyanea, Tryon, Manual of Conchology, Vol. I, p. 124, 1879.

Octopus cyanea, Hoyle, Report on the Cephalopoda, H.M.S. "Challenger," Zoology, Vol. XVI, p. 12, No. 53, 1886.

Habitat.—Port Jackson, New South Wales (A.M.); Moreton Bay, Queensland; Uji Island, Solomon Islands.

Octopus Peronii, Lesueur.

Sepia Octopoda, Peron, MSS.

Sepia Peronii, Lesueur, Journ. Acad. Nat. Sc., Philad., Vol. II, p. 101, 1821.

Octopus Peronii, Férus, d'Orb., Tab. Class. des Céph., 54, No. 7, 1823.

Octopus pustulosus, Peron, Blainv., Dict. Sc. Nat., XLIII, p. 186, 1826.

Octopus pustulosus, d'Orb., Céph. Acét., p. 66, 1835, 1848.

Octopus Peronii, Hoyle, Report on the Cephalopoda, H.M.S. "Challenger," Zoology, Vol. XVI, p. 13, No. 68, 1886.

Habitat.—Australian Seas. (Peron.)

Octopus cærulescens, Peron.

Octopus cærulescens, Peron, Blainv., Dic. des Sc. Nat., t. XLII, p. 129, 1826.

Octopus cærulescens, d'Orb., Céph. Acét., p. 65, 1835–48.

Octopus cærulescens, Hoyle, Report on the Cephalopoda, H.M.S. "Challenger," Zoology, Vol. XVI, p. 13, No. 73, 1886.

Habitat.—Australian Seas. (Peron.)

Octopus cornutus, Owen.

Tritaxopus cornutus, Owen, Trans. Zool. Soc., London, Vol. XI, part. 5, p. 131, pl. XXIII, 1881.

Octopus cornutus, Hoyle, Report on the Cephalopoda, H.M.S. "Challenger," Zoology, Vol. XVI, p. 14, No. 78, 1886.

Habitat.—Australian Seas.

Octopus sp.

Octopus sp. Hoyle, Report on the Cephalopoda, H.M.S. "Challenger," Zoology, Vol. XVI, p. 101, 1886.

Habitat.—Station 188, south of Papua, lat. 9° 59' S., long. 139° 42' E.; 28 fathoms; green mud. (H.M.S. "Challenger.")

Octopus sp.

Octopus sp. Hoyle, Report on the Cephalopoda, H.M.S. "Challenger," Zoology, Vol. XVI, p. 101, 1886.

Habitat.—Station 184, east of Cape York, lat. 12° S' S., long. 145° 10' E.; 1,400 fathoms; Globigerina ooze. (H.M.S. "Challenger.")

Sub-order DECAPODA, Leach.

DIVISION MYOPSIDA, d'Orbigny.

Family SEPIOLINI, Steenstrup.

SEPIOLA (Rondelet, 1554); Leach, 1817.

***Sepiola Rondeletii*, Leach.**

De Sepiola, Rondelet, De Piscibus, lib. XVII, cap. X, p. 519, 1554.

Sepiola Rondeletii, Gesner, De Aquat., lib. IV, p. 855, 1558.

De Sepiola, Boussuet, De Nat. Aquat., p. 204, 1558.

Sepiola Rondeletii, Aldrovande, De Mollib., lib. V, p. 63, 1642.

Sepiola, Jonston, Hist. Nat. De Piscibus, lib. 1, cap. III, t. I, p. 8, fig. 8, 1650.

Sepiola, Ruysch, Theatr. Evang., t. 1, fig. 1, 1718.

Sepia sepiola, Linn., Syst. Nat. edit. 12, p. 1,096, No. 5, 1767.

Sepia sepiola, Scopoli, Observ. Zool., p. 128, 1772.

Sepia sepiola, Herbst., Enseit. zur Kennt. der Gerv., p. 80, No. 4, 1788.

Sepia sepiola, Gmelin, Syst. Nat., ed. 13, p. 3,151, No. 5, 1789.

Loligo sepiola, Lamarek, Mémoires de la Société d'Hist. Nat. de Paris. p. 16, 1799.

Sepiola Rondeletii, Leach, Zool. Miscell., Vol. III, p. 138, 1817.

Loligo sepiola, Lamarek, Anim. sans. Vert., t. VII, p. 664, No. 4, 1822.

Sepiola vulgaris, Grant, Trans. Zool. Soc. Lond., Vol. I, p. 77, 1833.

Sepiola Rondeleti, d'Orb., Céph. Acét., p. 230; Sépioles, pl. 1, figs. 1, 6; pl. 2, figs. 3, 13; pl. 3, figs. 6, 9, 1835-48.

Sepiolo Sepiolo, Tryon, Manual of Conchology, Vol. I, p. 155, pl. 66, fig. 229, 1879.

Sepiolo Rondeleti, Hoyle, Report on the Cephalopoda, H.M.S. "Challenger," Zoology, Vol. XVI, p. 101, 1886.

Habitat.—Iron Stone Cove, Port Jackson, N.S.W. (J. Brazier.)

INIOTEUTHIS, Verrill, 1881.

***Iniotenthis stenodactyla*, Grant.**

Sepiolo stenodactyla, Grant, Trans. Zool. Soc., London, Vol. I, p. 84, pl. 11, figs. 1, 2, 1833.

Sepiolo stenodactyla, Gervais et Van Beneden, Bull. de l'Acad. de Bruxelles, t. V, No. 7, from Grant.

Sepiolo stenodactyla, d'Orb., Céph. Acét., p. 238, No. 5; Sépioles, pl. 2, figs. 1, 2, 6°, 1835-48.

Sepiolo stenodactyla, Gray, Ceph. Antep., Brit. Mus. Cat., p. 94, 1849.

Sepiolo stenodactyla, Tryon, Manual Conchology, Vol. I, p. 157, pl. 66., fig. 239, 1879.

Sepiolo stenodactyla, Hoyle, Report on the Cephalopoda, H.M.S. "Challenger," Zoology, Vol. XVI, p. 17, No. 5, 1886.

Habitat.—Port Jackson, New South Wales. (A.M.)

***Iniotenthis Tasmanica*, Pfeffer.**

Sepiolo tasmanica, Pfeffer, Ceph. Hamb. Mus., p. 6, fig. 7, 1884.

Sepiolo tasmanica, Hoyle, Report on the Cephalopoda, H.M.S. "Challenger," Vol. XVI, p. 17, 1886.

Habitat.—Tasmania and Bass' Strait.

Family, SEPIARI, Steenstrup, 1861.

SEPIID.E, d'Orb. (*Pars*).

Sub-family, SEPIADARI, Steenstrup, 1881.

SEPIOLOIDEA, d'Orbigny, 1839.

***Sepioloidea lineolata*, Quoy et Gaimard.**

Sepiolo lineolata, Quoy et Gaim., Zool., Voy. "Astrolabe," Vol. II, p. 82, Moll., pl. 5, figs. 8, 13, 1832.

Sepiolo lineolata, Gervais et Van Beneden, t. V, p. 6, No. 7, 1838.

Sepioloidea lineolata, d'Orb., Céph. Acét., p. 240; Sépioles, pl. 3, figs. 10, 18, 1839.

Sepiola lineata, Gray, Ceph. Antep. Brit. Mus., p. 95, 1849.

Sepiola lineolata, Tryon, Manual Conchology, Vol. I, p. 157, pl. 66, fig. 242; pl. 67, figs. 240, 241, 243, 1879.

Sepioloidea lineata, Stp., Sepiadarium og Idiosepius, p. 233, 1881.

Sepioloidea lineata, Brock, Zeitschi, f. Wiss. Zool., Bd. XL, pp. 105, 120, 1884.

Sepioloidea lineolata, Hoyle, Report on the Cephalopoda, H.M.S. "Challenger," Zoology, Vol. XVI, p. 19, No. 1, 1886.

Habitat.—Jervis Bay, Port Jackson, New South Wales (A.M.), Port Stephens: St. Vincent Gulf, South Australia.

Sub-family, IDIOSEPII, Steenstrup, 1881.

SPIRULA, Lamarek, 1801.

Spirula Peroni, Lamarek.

Nautilus spirula, Linné, Syst. Nat., 12th edition, p. 1163, 1766.

Spirula fragilis, Lam., Syst. des Anim. sans Vert., p. 102, 1801.

Spirula prototypus, Peron, Voy. Terres Austral, pl. 30, fig. 4, 1804.

Spirula Australis, Lam., Ency. Meth., pl. 465, fig. 5, 1816.

Spirula fragilis, Schumacher, Nouv. Syst., p. 256, 1817.

Spirula peronii, Lam., Anim. sans Vert., Vol. 7, p. 601, 1822.

Spirula peronii, Lam., Anim. sans Vert., Desh. Edit., Vol. II, p. 280, 1845.

Spirula peronii, Owen in Ad. and Reeve, Voy. "Samarang," Moll. pl. 4, figs. 1, 4, 5, 6, 7, 11, 12, 13, 14, 15, 1884.

Lituus prototypus, Gray, Ceph. Antep. Brit. Mus., p. 115, 1849.

Lituus lavis, Gray, Ceph. Antep., Brit. Mus., p. 116, 1849.

Ammonia lavis, Angas, Proc. Zool. Soc., Lond., p. 157, 1865.

Ammonia (Lituus) lavis, Angas., Proc. Zool. Soc., Lond., p. 186, 1867.

Spirula peronii, Tryon, Manual of Conchology, Vol. I, p. 205, pl. 96, figs. 467, 469, 1879.

Spirula peronii, Hoyle, Report on the Cephalopoda, H.M.S. "Challenger," Zoology, Vol. XVI., pp. 20, 122, 1886.

Habitat.—New South Wales (A.M.), South Australia, Tasmania, Queensland, Torres Straits Islands, West and North-west Australia.

Sub-family EUSEPII, Steenstrup, 1881.

SEPIA, Linné, 1766.

***Sepia plangon*, Gray.**

Sepia plangon, Gray, Ceph. Antep. Brit. Mus., p. 104, 1849.

Sepia plangon, Tryon, Manual of Conchology, Vol. 1, p. 194, 1879.

Sepia plangon, Hoyle, Report on the Cephalopoda, H.M.S. "Challenger," Zoology, Vol. XVI, p. 21, 1886.

Habitat.—Port Jackson, and the coast of New South Wales. (A.M.)

***Sepia Smithi*, Hoyle.**

Sepia Smithi, Hoyle, Ann. and Mag. Nat. His., ser. 5, Vol. XVI, p. 190, 1885.

Sepia Smithi, Hoyle, Report on the Cephalopoda, H.M.S. "Challenger," Zoology, Vol. XVI, pp. 21, 124, pl. 15, figs. 1, 12, 1886.

Habitat.—Arafura Sea, south of New Guinea; 28 fathoms; green mud. (H.M.S. "Challenger.")

***Sepia papuensis*, Hoyle.**

Sepia papuensis, Hoyle, Ann. and Mag. Nat. Hist., ser. 5, Vol. XVI, p. 197, 1885.

Sepia papuensis, Hoyle, Report on the Cephalopoda, H.M.S. "Challenger," Zoology, Vol. XVI, pp. 21, 126, pl. 15, figs. 13, 23, 1886.

Habitat.—Arafura Sea, South of New Guinea; 28 fathoms; green mud. (H.M.S. "Challenger.")

***Sepia latimanus*, Quoy et Gaimard.**

Sepia latimanus, Quoy et Gaimard, Voyage "Astrolabe," Vol. 2, p. 68, pl. 1, Mollusca, figs. 2-11, 1832.

Sepia latimanus, d'Orb., Céph. Acét., p. 283; Seiches, pl. 12, figs. 1, 6, pl. 18, figs. 16, 17, 1839.

Sepia latimanus, Tryon, Manual of Conchology, Vol. I, p. 192, pl. 88, figs. 400, 401, 1879.

Sepia latimanus, Gray, Ceph. Antep., Brit. Mus., p. 101, 1849.

Habitat.—Western and North-west Australia; Torres Straits.

***Sepia apama*, Gray.**

Sepia apama, Gray, Ceph. Antep. Brit. Mus., p. 103, No. 10, 1849.

Sepia apama, Tryon, Manual of Conchology, Vol. I, p. 194, 1879.

Sepia apama, Hoyle, Report on the Cephalopoda, H.M.S. "Challenger," Zoology, Vol. XVI, p. 24, 1886.

Habitat.—Port Jackson, and the coast of New South Wales; South Australia. (A.M.)

***Sepia indica*, d'Orbigny.**

Sepia Blainvillei, d'Orb., Céph. Acét., pl. 21, 1839 (not Deshayes, 1837).

Sepia indica, d'Orb., Céph. Acét., p. 288, No. 21, 1839.

Sepia indica, Gray, Ceph. Antep., Brit. Mus., p. 108, 1849.

Sepia indica, Hoyle, Report on the Cephalopoda, H.M.S. "Challenger," Zoology, Vol. XVI, pp. 22, 218, 220.

Habitat.—Western Australia, Cape Upstart, N.E. Australia.

***Sepia rostrata*, d'Orbigny.**

Sepia rostrata, d'Orb., Céph. Acét., p. 284; Seiches, pl. 8, fig. 6, pl. 26, 1839.

Sepia rostrata, Gray, Ceph. Antep., Brit. Mus., p. 108, 1849.

Acanthosepion spinigerum, Rochebr., Monogr. Sepiadae, p. 103, 1884.

Sepia rostrata, Hoyle, Report on the Cephalopoda, H.M.S. "Challenger," Zoology, Vol. XVI, pp. 22, 218, 220.

Habitat.—Western Australia and Torres Straits.

***Sepia Australis*, d'Orbigny.**

Sepia Australis, d'Orb., Céph. Acét., p. 285; Seiches, pl. 7, fig. 4, 1839.

Sepia Australis, Hoyle, Report on the Cephalopoda, H.M.S. "Challenger," Zoology, Vol. XVI, pp. 22, 220.

Habitat.—Kangaroo Island, South Australia.

***Sepia mestus*, Gray.**

Sepia mestus, Gray, Ceph. Antep., Brit. Mus., p. 108, 1849.

Sepia mestus, Hoyle, Report on the Cephalopoda, H.M.S. "Challenger," Zoology, Vol. XVI, p. 23, 220, 1886.

Habitat, Port Jackson, and the Coast of New South Wales. (A.M.)

***Sepia cultrata*, Hoyle.**

Sepia cultrata, Stp., M.S. in Mus., Havn.

Sepia cultrata, Hoyle, Ann. and Mag. Nat. Hist. series 5, Vol. XVI, p. 198, 1885.

Sepia cultrata, Hoyle, Report on the Cephalopoda, H.M.S. "Challenger," Zoology, Vol. XVI, pp. 133, 220, pl. 20, 1887.

Sepia capensis, Var. Gray, Ceph. Antep., Brit. Mus., p. 110 (*excl. syn.*)

Habitat.—Twofold Bay, New South Wales; 150 fathoms; green mud. (H.M.S. "Challenger.")

Sepia elliptica, Hoyle.

Sepia elliptica, Hoyle, Ann. and Mag. Nat. Hist., series 5. Vol. XVI, p. 189, 1885.

Sepia elliptica, Hoyle, Report on the Cephalopoda, H.M.S. "Challenger," Zoology, Vol. XVI, pp. 22, 131, 48; pl. 19, figs. 14, 24.

Habitat.—Arafura Sea, South of New Guinea; 28 and 49 fathoms; green mud. (H.M.S. "Challenger.")

Sepia capensis, d'Orbigny.

Sepia capensis, d'Orb., Céph. Acét. Seiches, pl. 7, figs. 1-3, 1826.

Sepia Australis, Quoy et Gaimard, Voy. "Astrolabe," Vol. II, p. 7, pl. 5, figs. 3, 7, 1832.

Sepia capensis, d'Orb., Céph. Acét., p. 278; Seiches, pl. 7, figs. 1, 3, pl. 12, figs. 7, 11, pl. 17, figs. 18, 19, 1839.

Sepia Sinope, Gray, Ceph. Antep., Brit. Mus., p. 10, 1849.

Sepia capensis, Hoyle, Report on the Cephalopoda, H.M.S. "Challenger," Zoology, Vol. XVI, pp. 23, 217.

Habitat.—New South Wales coast and North Queensland. (J. Brazier.)

Sepia palmata. Owen.

Sepia palmata, Owen, Trans. Zool. Soc., London, Vol. II, part vi, page 134, pls. 22-25, 1881.

Sepia palmata, Hoyle, Report on the Cephalopoda, H.M.S. "Challenger," Zoology, Vol. XVI, pp. 24, 220, 1886.

Habitat.—North Queensland Coast and Norfolk Island.

Sub-Genus METASEPIA, Hoyle, 1885.

Sepia (Metasepia) Pfefferi, Hoyle.

Sepia (Metasepia) Pfefferi, Hoyle, Ann. and Mag. Nat. Hist., 5th series, Vol. XVI, pp. 199, 200, 1885.

Sepia (Metasepia) Pfefferi, Hoyle, Report on Cephalopoda, H.M.S. "Challenger," Zoology, Vol. XVI, pp. 24, 145, 218, pl. 21, figs. 1, 10.

Habitat.—Arafura Sea, South of New Guinea; 28 fathoms; green mud. (H.M.S. "Challenger.")

Family LOLIGINI, Steenstrup, 1861.

SEPIOTEUTHIS, Blainville, 1825.

Sepioteuthis lunulata, Quoy et Gaimard.

Sepioteuthis lunulata, Quoy et Gaim., Voy. "Astrolabe," Vol. II, p. 74, Moll., pl. 3, figs. 3, 13, 1832.

Sepioteuthis Guinensis, Quoy et Gaim., Voy. "Astrolabe," Vol. II, p. 72, pl. 3, figs. 1, 7, 1832.

Sepioteuthis lunulata, d'Orb., Céph. Acét. p. 300. Sépioteuthis, pl. 3, fig. 1, pl. 6, figs. 1, 8, 1839.

Sepioteuthis dorensis, d'Orb., Céph. Acét. Sépioteuthis, pl. 3, fig. 3. 1833.

Sepioteuthis lunulata, Gray, Ceph. Antep., Brit. Mus., p. 78. 1849.

Sepioteuthis Guinensis, Tryon, Manual of Conchology, Vol. 1, p. 151. pl. 61. fig. 198, 1879.

Sepioteuthis lunulata, Hoyle, Report on Cephalopoda, H.M.S. "Challenger," Zoology, Vol. XVI, pp. 27, 220.

Habitat.—Port Jackson, New South Wales; Torres Straits; New Guinea; Bougainville Island; Solomon Islands. (A.M.)

***Sepioteuthis Australis*, Quoy et Gaimard.**

Sepioteuthis Australis, Quoy et Gaim., Voy. "Astrolabe," Vol. II, p. 77, pl. 4, fig. 1, 1832.

Sepioteuthis Australis, d'Orb., Céph. Acét., p. 300; Sépioteuthis, pl. 5, fig. 5, pl. 6, figs. 15, 21, 1839.

Sepioteuthis Australis, Gray, Ceph. Antep., Brit. Mus., p. 79, 1849.

Sepioteuthis Australis, McCoy, Nat. Hist., Victoria, Decade 7, pl. 61. 62. 1883.

Sepioteuthis Australis, Tryon, Manual of Conchology, Vol. I, p. 151. pl. 61. fig. 201, 1879.

Sepioteuthis australis, Hoyle, Report on Cephalopoda, H.M.S. "Challenger," Zoology, Vol. XVI, pp. 26, 220.

Habitat.—Western Port, Victoria; Port Jackson, New South Wales (A.M.); Darnley Island, Torres Straits.

***Sepioteuthis Lessoniana*, Férussac.**

Sepioteuthis Lessoniana, d'Orb., Tab. Méth. Ann. de. Sci. Nat., Vol. VII, p. 155, 1826.

Sepioteuthis Lessoniana, Lesson, Voy. "Coquille," Moll., p. 241, pl. 11, 1830.

Sepioteuthis Lessoniana, d'Orb., Céph. Acét., p. 302; Sépioteuthis, pls. 1, 6, figs. 9, 14, 1839.

Sepioteuthis Lessoniana, Gray, Ceph. Antep., Brit. Mus., p. 80, 1849.

Sepioteuthis Lessoniana, Tryon, Manual of Conchology, Vol. I, p. 152, pl. 62, fig. 212, 1879.

Sepioteuthis lessoniana, Hutton, New Zealand, Mollusca, p. 3, 1880.

Sepioteuthis lessoniana, Appellöf, Japanska, Ceph., p. 31, 1886.

Sepioteuthis lessoniana, Hoyle, Report on Cephalopoda, H.M.S. "Challenger," Zoology, Vol. XVI, pp. 27, 219, 220.

Habitat.—Frazer's Island, Queensland; New Zealand; Uji Island, Solomon Islands (A.M.); Torres Straits; New Guinea.

***Sepioteuthis mauritiana*, Quoy et Gaimard.**

Sepioteuthis mauritiana, Quoy et Gaim., Voy. "Astrolabe," Vol. II, p. 76, pl. 4, figs. 2, 6, 1832.

Sepioteuthis mauritiana, d'Orb., Céph. Acét., p. 304; *Sépioteuthis*, pl. 5, figs. 1. 4: pl. 7, figs. 1-5, 1839.

Sepioteuthis mauritiana, Gray, Ceph. Antep., p. 79, 1849.

Sepioteuthis mauritiana, Tryon, Manual of Conchology, Vol. I, p. 152, pl. 62, fig. 206, 1879.

Sepioteuthis mauritiana, Hoyle, Report on Cephalopoda, H.M.S. "Challenger," Zoology, Vol. XVI, pp. 27, 217.

Habitat.—Port Jackson, New South Wales. J. Brazier (A.M.)

***Sepioteuthis bilineata*, Quoy et Gaimard.**

Sepia bilineata, Quay et Gaim., Voyage. "Astrolabe," Vol. II, p. 66, pl. 2, fig. 1. 1832.

Sepioteuthis bilineata, d'Orb., Céph. Acét., p. 301; *Sépioteuthis*, pl. 4, fig. 2, 1839.

Sepioteuthis bilineata, Gray, Ceph. Antep., Brit. Mus., p. 82, 1849.

Sepioteuthis bilineata, Tryon, Manual of Conchology, Vol. I, p. 154, pl. 63, fig. 221, 1879.

Sepioteuthis bilineata, Hoyle, Report on Cephalopoda, H.M.S. "Challenger," Zoology, Vol. XVI, p. 27.

Habitat.—Western Port, Victoria; Bass Straits.

***LOLIGO*, Lamarek, 1799.**

***Loligo australis*, Gray.**

Loligo australis, Gray, Ceph., Antep., Brit. Mus., p. 71, 1849.

Loligo australis. Tryon, Manual of Conchology, Vol. I, p. 148, 1879.

Loligo australis, Hoyle, Report on Cephalopoda, H.M.S. "Challenger," Zoology, Vol. XVI, pp. 31, 220.

Habitat.—Port Jackson, Newcastle, Port Stephens, New South Wales (A.M.)

Loligo edulis, Hoyle.

Loligo edulis, Hoyle, Ann. and Mag. Nat. Hist., 5th series, Vol. XVI, p. 186, 1885.

Loligo edulis, Hoyle, Report on Cephalopoda, H.M.S. "Challenger," Zoology, Vol. XVI, pp. 29, 152, pl. 23, 1886.

Habitat.—Port Jackson, New South Wales: Yokohama, Japan. (A.M.)

Loligo indica, Pfeffer.

Loligo indica, Pfeffer, Cephalopoda, Hamb. Mus., p. 4, fig. 3, 3*, 1884.

Loligo indica, Hoyle, Report on Cephalopoda, H.M.S. "Challenger," Zoology, Vol. XVI, pp. 29, 156, pl. 26, 1886.

Habitat.—Arafura Sea, south of New Guinea; 28. 49 fathoms: green mud. (H.M.S. "Challenger.")

Division **ÆGOPSIDA**, d'Orbigny, 1839.Family **OMMASTREPHINI**, Steenstrup, 1861.

Sub-family **OMMASTREPHIDÆ**, Gill, 1871.

OMMASTREPHES, d'Orbigny, 1835.

Ommastrephes gigas, d'Orbigny.

Pernetti, Hist. Voy. aux Malouines, Vol. II, p. 76? 1770.

Sepia tunicata, Molina, Hist. Nat. du Chili, p. 173? 1789.

Sepia tunicata, Gmelin, Syst. Nat., ed. 13, p. 3151, sp. 8? 1789.

Sepia nigra, Bose, Hist. Nat. des Vers, Vol. I, p. 47? 1802.

Ommastrephes gigas, d'Orb., Voy. dans l'Amér. Méc., p. 50, pl. 4, 1835.

Ommastrephes giganteus, d'Orb., Céph. Acét., p. 350, 1839.

Ommastrephes gigas, Tryon, Manual of Conchology, Vol. I, p. 179, pl. 80, figs. 357, 360, 1879.

Ommastrephes gigas, Hoyle, Report on Cephalopoda, H.M.S. "Challenger," Zoology, Vol. XVI, pp. 32, 214, 1886.

Habitat.—North Queensland Coast: New South Wales: Lord Howe Island. (A.M.)

Ommastrephes oualaniensis, Lesson.

Loligo oualaniensis, Lesson, Voy. de "Coquille," Zool., p. 240, pl. 1, fig. 2, 1830.

Loligo vanikoriensis, Quoy et Gaim., Voy. "Astrolabe," Vol. II, p. 79, pl. 5, figs. 1, 2, 1832.

Loligo brevitentaculata, Quoy et Gaim., Voy. "Astrolabe," Vol. II, p. 81, 1832.

Ommastrephes oualaniensis, d'Orb., Céph. Acét., p. 351; Calamars, pl. 3, pl. 21, figs. 1, 2, 1839.

Ommastrephes oualaniensis, Stp., Annot. Blekspr., pp. 76, 84, 1880.

Ommastrephes oualaniensis, Hoyle, Report on Cephalopoda, H.M.S. "Challenger," Zoology, Vol. XVI, pp. 33, 162, 214, 1886.

Habitat.—Torres Straits, Great Barrier Reef, Nickol Bay, North-West Australia. (J. Brazier.)

Family ONYCHII, Steenstrup, 1861.

Sub-family ONYCHOTEUTHIDÆ, Gray, 1849.

ONYCHOTEUTHIS, Lichtenstein, 1818.

***Onychoteuthis rutilus*, Gould.**

Onychoteuthis rutilus, Gld., Moll., Wilkes' Exped., p. 482, fig. 595, 1852.

Onychoteuthis rutilus, Tryon, Manual of Conchology, Vol. I, p. 169, pl. 7, fig. 302, 1879.

Onychoteuthis rutilus, Hoyle, Report on Cephalopoda, H.M.S. "Challenger," Zoology, Vol. XVI, p. 39, 1886.

Habitat.—Near Sydney, New South Wales. (Wilke's Expedition.)

